

What is claimed is:

1 1. A method for rendering an image on a display and producing magnification in the
2 rendered image comprising:

3 selecting a set of polygon data to which to apply the magnification special effect;
4 retaining eye point δ angle data within the vertex data passed to the a graphics
5 rendering pipeline;
6 perturbing each eye point δ angle value at each polygon fragment; and
7 incorporating perturbed texel angles, where each texel has a U and a V
8 coordinate.

1 2. The method according to claim 1 wherein perturbing each eye point δ angle value
2 comprises multiplying eye point δ angle by a value N, and providing a corresponding
3 offset to each texel coordinate.

1 3. The method according to claim 1 wherein the texel coordinates are offset by an
2 eye point angle.

1 4. The method according to claim 3 wherein the texel coordinates are offset by the
2 eye point angle and by a value N.

1 5. A method according to claim 3 wherein accessing eye point δ angle data for each
2 texel to be produced comprises accessing data for selected vertices describing a polygon
3 and further comprising interpolating eye point δ angle data for each texel to be produced
4 between texels including said vertices.

1 6. The method according to claim 5 further comprising resolving an eye point δ
2 angle into eye point δ angle x in an X-Z plane and eye point δ angle y in a Y-Z plane.

1 12. A machine-readable medium according to claim 10 that provides instructions
2 which, when executed by a processor, cause said processor to perform operations
3 comprising producing magnification for a selected area of said display by modifying the
4 U and V texel coordinates by offsetting them with the eye point angle x and y
5 components.

1 13. A graphics pipeline converting polygon data to display data and further
2 comprising a means to modify to texel coordinates according to eye point δ angles to
3 allow a portion of a rendered image generated from the polygon data to have a
4 magnification effect applied.

1 14. The graphics pipeline according to claim 13 wherein said processor comprises a
2 multiplier system for establishing relationship projection angle = N eye point δ value.

1 15. The graphics pipeline of Claim 13 further comprising means applying the
2 magnifying effect only to selected polygons.

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